

Launch Mission Execution Forecast

Mission: Falcon 9 NASA Crew-2

Issued: 20 April 2021 / 0630L (1030Z)

Valid: 22 April 2021 / 0607-0617L (10007-1017Z)



Forecast Discussion: Rain showers and isolated thunderstorms are likely again today as the boundary remains stalled across Central Florida. On Wednesday, high pressure will build in and push the unsettled weather south through the day. By Thursday morning, the high pressure will be centered near Arkansas, creating gusty northerly winds along the Space Coast due to the pressure gradient between the high and the departing boundary. The primary weather concern Thursday morning will be these gusty Liftoff Winds associated with this strong pressure gradient.

By Friday morning, the high center will move over the Carolinas, allowing winds to diminish and turn easterly over the Spaceport. The primary launch weather concern for a Friday morning attempt will be Flight Through Precipitation with very isolated, low-topped coastal showers associated with the onshore flow.

	Probability of Violating Weather Constraints									
Day	20%	20% Primary Concerns: Liftoff Winds								
ch	Weather Conditions								Additional Risk Criteria	
aunch	Weather/Visi	bility:	None / 7 mi.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Moderate
Ĭ	Temp/Humidity:		68°F / 72%		Stratocumulus	Few	2,500	5,000	Booster Recovery Weather:	Moderate
	Liftoff Winds (200'):		020° 17-22 mph		Cirrostratus	Few	28,000	30,000	Solar Activity:	Low
,	Probability of Violating Weather Constraints									
Delay	10% Primary Concerns: Flight Through Precipitation									
	Weather Conditions								Additional Risk Criteria	
24-Hour	Weather/Visibility:		None / 7 mi.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24	Temp/Humidity:		70°F / 78%		Cumulus	Scattered	3,000	7,000	Booster Recovery Weather:	Low
	Liftoff Winds (200') : 080° 12-			7 mph					Solar Activity:	Low
	lote: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, an emperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.									

Next Forecast Will Be Issued 21 April 2021